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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [User interfaces for digital television: a navigator case study](#)**

Leena Eronen, Petri Vuorimaa

May 2000 **Proceedings of the working conference on Advanced visual interfaces**Full text available: [pdf\(1.01 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital television user interfaces are composed of text, graphics and video. Usability issues that arise include information visualization, searching and navigation. This paper introduces two user interface prototypes for digital television. Both prototypes were tested with real users and the test results are discussed.

Keywords: digital television, navigation, prototypes, usability, user interfaces**2 [Web-based personalization and management of interactive video](#)**

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté

April 2001 **Proceedings of the tenth international conference on World Wide Web**Full text available: [pdf\(611.20 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization**3 [Limited vision: the techno-political war to control the future of digital mass media](#)**

Craig Birkmaier

August 1997 **netWorker**, Volume 1 Issue 2Full text available: [pdf\(623.50 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**4 [Information delivery systems: an exploration of Web pull and push technologies](#)**

Julie E. Kendall, Kenneth E. Kendall

April 1999 **Communications of the AIS**Full text available: [pdf\(658.33 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**5 [Steerable media: interactive television via video synthesis](#)**

Chris Marrin, Rob Myers, Jim Kent, Peter Broadwell


February 2001 **Proceedings of the sixth international conference on 3D Web technology**

Full text available:  [pdf\(306.2 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: WWW applications, animation systems, applications, graphics systems, multimedia, rendering systems, video

6 Process migration

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

7 The usability of everyday technology: emerging and fading opportunities

Marianne Graves Petersen, Kim Halskov Madsen, Arne Kjær

June 2002 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 9 Issue 2

Full text available:  [pdf\(612.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Current work in the field of usability tends to focus on snapshots of use as the basis for evaluating designs. However, giving due consideration to the fact that everyday use of technology involves a process of evolution, we set out to investigate how the design of the technology may be used to support this. Based on a long-term empirical study of television use in the homes of two families, we illustrate how use continuously develops in a complex interplay between the users' expectations---as t ...

Keywords: TV set, activity theory, case study, design, development in use, domestic technology, usability

8 Broadcast and on-line cultural heritage: Broadcast technologies for disseminating cultural heritage

John Cosmas, Take Itegaki, Kannan Krishnapillai, Alan Lucas, Mohammed Akhtar, Graham Thomas, Jigna Chandaria, Wolfgang Putz, Andre Everts, Michael Probst, Peter Stamminitz, Jens Guether, Wolfram Liebsch, Gerhard Stoll, Christoph Dosch Reiner Socker, Chris Brendes, Ronald Mies, Dick Van Smirren, Benoit Mory, Nicolas Santini, Alan Pearmain, Yakup Paker, Mounia Lalmas, Damien Parwpoth, Ekaterina Moutogianni, Gunn Klungsoeyr, Lena Pedersen, Pers-Steinar Hansen, Klaus Illgner

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**


Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper introduces the System for Advanced Multimedia Broadcast and IT Services (SAMBITS). It consists of a Studio, Server and TV Terminal system for broadcasting audio/video TV content enhanced by 3D graphics, Internet pages, database indexing and sub-image streaming. It describes two scenarios program for disseminating cultural heritage. The readers are invited to imagine how this system could be used to prepare programs for disseminating archaeology. The paper describes the Studio and Serv ...

9 Climb Meru: an integrated brand experience

Andrew Davison, Brendan Kiernan, Max Chadwick, Kameron Kerger, Matt Ludwig

April 2002 **Case studies of the CHI2002/AIGA Experience Design FORUM**

Full text available:  pdf(2.12 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Small innovative design firm tackles the challenge of creating complex cross-channel brand experiences through the application of Experience Design methodology. The key findings - The development of an experience design methodology supports a rapid and cost effective brand marketing campaign focused on defining and delivering user experiences. An integrated marketing campaign leveraging multiple marketing channels, proves extremely effective at reaching key, difficult to reach customer segments. A W ...

Keywords: brand development, business strategy, digital storytelling, experience design, information architecture, integrated brand experience, interactive design, marketing communications, visual design

10 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available:  pdf(5.14 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

11 Content management: Dynamic program insertion in high quality video over IP

Taehyun Kim, Jack Brassil

June 2003 **Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video**

Full text available:  pdf(269.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce an overlay network architecture and signaling mechanism that permit program insertions in live, high quality video streams transmitted over IP networks. We describe the implementation of an application proxy that dynamically inserts pre-recorded video programs into NTSC D1 quality Motion-JPEG streams with no visible artifacts. As increases in computing power further enable the modification of video during transport, new services such as personalized commercial advertisement insertio ...


Keywords: content delivery networks (CDNs), digital television (DTV), multimedia signaling, program and system information protocol (PSIP), program cues, real-time transport protocol (RTP), video streaming

12 A personalized television listings service

Barry Smyth, Paul Cotter

August 2000 **Communications of the ACM**, Volume 43 Issue 8

Full text available:  pdf(314.01 KB)

 html(22.48 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


13 Emergent patterns of integration in electronic channel systems

Christoph Schlueter-Langdon, Michael J. Shaw

December 2002 **Communications of the ACM**, Volume 45 Issue 12

Full text available:  pdf(197.77 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

 [html\(29.5 KB\)](#)

What should producers and consumers alike make of the emerging class of middlemen and intermediaries in electronic channels?

14 Inhabited television: broadcasting interaction from within collaborative virtual environments

December 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 4

Full text available:  [pdf\(708.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Inhabited television combines collaborative virtual environments (CVEs) with broadcast television so that on-line audiences can participate in television shows within shared virtual worlds. We describe a series of experiments with inhabited television, beginning with the NOWninetysix poetry performance, The Mirror, and Heaven & Hell—Live. These early experiments raised fundamental questions for inhabited television concerning the extent to which it is possible to establish fast-pace ...

Keywords: computer-supported cooperative work, entertainment, media spaces, social interaction

15 The físchlár digital video system: a digital library of broadcast TV programmes

A. F. Smeaton, N. Murphy, N. E. O'Connor, S. Marlow, H. Lee, K. McDonald, P. Browne, J. Ye
January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  [pdf\(102.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Físchlár is a system for recording, indexing, browsing and playback of broadcast TV programmes which has been operational on our University campus for almost 18 months. In this paper we give a brief overview of how the system operates, how TV programmes are organised for browse/playback and a short report on the system usage by over 900 users in our University.

16 Web-based and Java-based simulation: A review of web based simulation: whither we wander?

Jasna Kuljis, Ray J. Paul

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available:  [pdf\(226.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper considers a variety of new technologies for discrete-event simulation software development. Environments and languages for web based simulation are reviewed. Web based applications are discussed. After proposing a summary of the review, ways of working that will have an unpredictable effect on the future of simulation modeling are proposed.

17 Structuring internet media streams with cueing protocols


Jack Brassil, Henning Schulzrinne

August 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 4

Full text available:  [pdf\(282.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a new, media-independent protocol for including program timing, structure, and identity information in Internet media streams. The protocol uses signaling messages called *cues* to indicate events whose timing is significant to receivers, such as the start or stop time of a media program. We describe the implementation and operation of a prototype Internet radio station which transmits program cues in audio broadcasts using the Real-Time Transport Protocol (RTP). A collection of ...

Keywords: content delivery networks, multimedia signaling, real-time transport protocol (RTP)

18 Spoken dialogue technology: enabling the conversational user interfaceMarch 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1Full text available:  [pdf\(987.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...


Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

19 CMIFed: a transportable hypermedia authoring system

Lynda Hardman, Guido van Rossum, Jack Jansen, Sjoerd Mullender

October 1994 **Proceedings of the second ACM international conference on Multimedia**Full text available:  [pdf\(1.93 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**20 System-level power optimization: techniques and tools**

Luca Benini, Giovanni de Micheli

April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 2Full text available:  [pdf\(385.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survey ...

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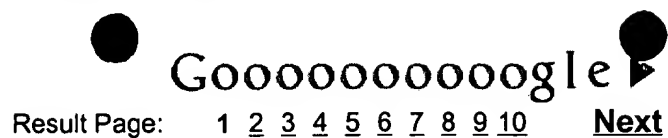
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6	48	(((((345/763-765,733,744,737-739,716,717,721,719,835.840,841.ccls.and (guide channel shcedule)) (725/109,40,51,135,54.ccls. and (guide schedule channel))) and select\$4 same (web\$5 (web adj site)) with channel) and (internet web\$4) with channel and television with channel) and (buttons bar array) with (web channels sites programs)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/16 19:04
7	25	(((((345/763-765,733,744,737-739,716,717,721,719,835.840,841.ccls.and (guide channel shcedule)) (725/109,40,51,135,54.ccls. and (guide schedule channel))) and select\$4 same (web\$5 (web adj site)) with channel) and (internet web\$4) with channel and television with channel) and (buttons bar array) with (web channels sites programs)) and (integrat\$4 conver\$5) with system	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/16 19:05
8	3	((((((345/763-765,733,744,737-739,716,717,721,719,835.840,841.ccls.and (guide channel shcedule)) (725/109,40,51,135,54.ccls. and (guide schedule channel))) and select\$4 same (web\$5 (web adj site)) with channel) and (internet web\$4) with channel and television with channel) and (buttons bar array) with (web channels sites programs)) and (integrat\$4 conver\$5) with system) and grid\$4 and categor\$4 and television near3 channels	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/16 19:07
9	3	((((((345/763-765,733,744,737-739,716,717,721,719,835.840,841.ccls.and (guide channel shcedule)) (725/109,40,51,135,54.ccls. and (guide schedule channel))) and select\$4 same (web\$5 (web adj site)) with channel) and (internet web\$4) with channel and television with channel) and (buttons bar array) with (web channels sites programs)) and (integrat\$4 conver\$5) with system) and grid\$4 and categor\$4 and television near3 channels) and ((web adj site) web) near5 channels	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/16 19:07
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12	1	display\$4 with ((web adj site) web) near5 channels same grid\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/16 19:10

13	288	display\$4 with ((web adj site) web) near5 channels	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/16 19:10
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18	9	((display\$4 with ((web adj site) web) near5 channels) and select\$4 with television near5 channels) and web near5 channel with select\$4 and categor\$4) and graphical near3 interface	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/16 19:11